TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-07-13-01** **Date: 15-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-01
Sample Type	:	SUNVIK
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	14-07-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	SUNVIK	Fe500	8	0.392	549	661	21.0%	Satisfactory	Satisfactory
2	SUNVIK	Fe500	10	0.611	562	672	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-01-05** **Date: 03-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.98	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.3	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-07-01-05 **Date: 29-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-07-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-05** **Date: 03-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	754	754	5.0	95.0	90-100
3	20 mm	6592	7346	49.0	51.0	30-70
4	10 mm	4759	12105	80.7	19.3	10-35
5	4.75 mm	2595	14700	98.0	2.0	0-5
6	Pan	300	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-01-05** **Date: 03-07-17**

Sample ID No : 2017-07-01-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-05** **Date: 03-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	231	231	4.6	95.4	90-100
3	10 mm	2554	2785	55.7	44.3	25-55
4	4.75 mm	2161	4946	98.9	1.1	0-10
5	Pan	54	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-07-01-05 **Date: 03-07-17**

Sample ID No : 2017-07-01-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.29	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-01-05** **Date: 03-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-05/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	01-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	188	220	22.0	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	195	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	219	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	193	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	121	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-07-01-05 **Date: 03-07-17**

Sample ID No : 2017-07-01-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.87	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	4.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2017-07-15-03 **Date: 19-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Sample ID No	:	2017-07-15-03/01
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	15-07-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	200	16241	32.160	1980.2	1954.8	Not less than 1800Kg/m^3
2	402	201	203	16403	31.980	1949.7		
3	401	202	203	16443	31.810	1934.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.650	32.440	3.73	3.53	Shall not be more than 10% by mass
2	33.980	32.870	3.38		
3	33.250	32.130	3.49		

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Lab ID : CP-2017-07-15-03

Date: 19-07-17

Sample ID No : 2017-07-15-03/01

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	203	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	200	203	
3	401	202	203	
4	402	201	202	
5	401	200	201	
6	402	203	202	
7	403	200	203	
8	403	201	202	
9	402	202	201	
10	403	201	202	
11	402	203	201	
12	401	203	202	
13	402	201	203	
14	402	200	200	
15	400	203	199	
16	401	202	201	
17	403	201	202	
18	401	203	198	
19	402	203	201	
20	404	202	200	
Average of 20	402	202	201	

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Lab ID : CP-2017-07-15-03 Date: 19-07-17

Sample ID No : 2017-07-15-03/01

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	203	81403	254.1	3.1	4.2
2	402	200	80400	375.9	4.7	
3	401	202	81002	302.1	3.7	
4	402	201	80802	372.8	4.6	
5	401	200	80200	358.6	4.5	
6	402	203	81606	338.1	4.1	
7	403	200	80600	372.6	4.6	
8	403	201	81003	355.5	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-20-01**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-17
Sample ID No	:	2017-07-20-01/01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 22/07/2017

Date of test : 22/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	15/07/2017	22/07/2017	150.11 X 150.32 X 150.54	22565	8.138	433.2	19.2	19.1
2	PCC	M20	15/07/2017	22/07/2017	150.22 X 150.76 X 150.11	22647	8.230	437.1	19.3	
3	PCC	M20	15/07/2017	22/07/2017	150.13 X 150.21 X 150.44	22551	8.330	426.2	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-07-20-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-17
Sample ID No	:	2017-07-20-01/01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/07/2017

Date: 22/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	15/07/2017	22/07/2017	150.11 X 150.32 X 150.54	22565	8.138	433.2	19.2	18.9
2	PCC	M20	15/07/2017	22/07/2017	150.22 X 150.76 X 150.11	22647	8.230	419.0	18.5	
3	PCC	M20	15/07/2017	22/07/2017	150.13 X 150.21 X 150.44	22551	8.330	426.2	18.9	

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-07-20-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-17
Sample ID No	:	2017-07-20-01/02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/08/2017

Date: 12/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	15/07/2017	12/08/2017	150.20 X 150.32 X 150.14	22578	8.276	530.6	23.5	23.5
2	PCC	M20	15/07/2017	12/08/2017	150.53 X 150.33 X 150.21	22629	8.288	522.7	23.1	
3	PCC	M20	15/07/2017	12/08/2017	150.11 X 150.53 X 150.22	22596	8.198	537.8	23.8	

Note:

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/07/2017

Lab ID	:	CP-2017-07-25-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-17
Sample ID No	:	2017-07-25-01/01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	22/07/2017	29/07/2017	150.20 X 150.32 X 150.14	22578	8.276	410.9	18.2	18.5
2	PCC	M20	22/07/2017	29/07/2017	150.53 X 150.33 X 150.21	22629	8.288	418.6	18.5	
3	PCC	M20	22/07/2017	29/07/2017	150.11 X 150.53 X 150.22	22596	8.198	427.1	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/08/2017

Lab ID	:	CP-2017-07-25-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Drinking water works in ward No-04 in Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-17
Sample ID No	:	2017-07-25-01/02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	22/07/2017	19/08/2017	150.19 X 150.17 X 150.15	22554	8.344	532.3	23.6	23.8
2	PCC	M20	22/07/2017	19/08/2017	150.23 X 150.16 X 150.21	22559	8.395	536.9	23.8	
3	PCC	M20	22/07/2017	19/08/2017	150.33 X 150.28 X 150.35	22592	8.437	539.9	23.9	

Note:
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